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PATENT  
Attorney Docket No.: AUB-03901

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

Thomas Baginski

Patent No.: 6,977,468  
Serial No.: 10/770,134

Issued: December 20, 2005  
Filed: February 2, 2004

For: **AN INTEGRATED SPARK GAP  
DEVICE**

) Group Art Unit:

) Examiner:

) **TRANSMITTAL LETTER**

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MS: Post Issue  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Enclosed please find a Power of Attorney and Revocation of Prior Powers of Attorney for filing in the U.S. Patent and Trademark Office. Also enclosed is a table Exhibit A.

The Commissioner is hereby authorized to charge any additional fee or credit overpayment to our Deposit Account No. 08-1275. **An originally executed duplicate of this transmittal is enclosed for this purpose.**

Respectfully submitted,  
HAVERSTOCK & OWENS LLP

Dated: September 28, 2006

By: Jonathan O. Owens  
Jonathan O. Owens  
Reg No.: 37,902

Attorneys for Applicants

**CERTIFICATE OF MAILING (37 CFR § 1.8(a))**  
I hereby certify that this paper (along with any referred to as being attached or enclosed) is being deposited with the U.S. Postal Service on the date shown below with sufficient postage as first class mail in an envelope addressed to the: Commissioner for Patents, P.O. Box 1450 Alexandria, VA 22313-1450

HAVERSTOCK & OWENS LLP.

Date: 9/28/06 By: [Signature]



IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:

See Exhibit A

POWER OF ATTORNEY AND  
REVOCATION OF PRIOR  
POWERS OF ATTORNEY

Customer No.: 28960

Mail Stop Post Issue  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Sir:

Auburn University, owner of record of the applications and patents listed on Exhibit A, hereby revokes all prior powers of attorney which may have been filed with these applications and patents, and appoints the members of the firm of HAVERSTOCK & OWENS LLP, a firm including Jonathan O. Owens (Reg. No. 37,902) and Thomas B. Haverstock (Reg. No. 32,571), as its attorneys with full power of substitution to transact all business in the Patent and Trademark Office in connection therewith.

Please direct all correspondence regarding these applications and patents to:

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Customer No.: 28960

Dated: 9/13/06

By: John D. Thornton  
Name: John D. Thornton  
Title: Director, Office of Technology Transfer

# Exhibit A

Attorney Docket No.:	Inventor(s)	Description
AUB-02100 (2A09 1-190)	Shelby Worley Michael Eknoian Yanjun Li	U.S. Patent No.: 5,902,818 (application no 08/987,698 filed 12/9/97) Issued: 5/11/99 Entitled: <b>SURFACE ACTIVE N-HALAMINE COMPOUNDS</b>
AUB-02101 (2A09 1-191)	Shelby Worley Michael Eknoian Yanjun Li	U.S. Patent No.: 6,162,452 (application no 09/246,217 filed 2/8/99) Issued: 12/19/00 Entitled: <b>SURFACE ACTIVE N-HALAMINE COMPOUNDS</b>
AUB-02102 (2A09 1-192)	Shelby Worley Michael Eknoian Yanjun Li	U.S. Patent No.: 6,469,177 B1 (application no 09/710,090 filed 11/10/00) Issued: 10/22/02 Entitled: <b>SURFACE ACTIVE N-HALAMINE COMPOUNDS</b>
AUB-02103 (2A09 1-193)	Shelby Worley Michael Eknoian Yanjun Li	U.S. Patent Application No.: 10/235,370 Filed: 9/3/02 Entitled: <b>SURFACE ACTIVE N-HALAMINE COMPOUNDS</b>
AUB-02200	Shelby Worley Royall Broughton Jeffrey Williams	U.S. Patent Application No.: 10/295,001 Filed: 11/13/02 Entitled: <b>USE OF A N-HALAMINE BIOCIDAL POLYMER FOR ODOR CONTROL</b>



<b>Attorney Docket No.:</b>	<b>Inventor(s)</b>	<b>Description</b>
AUB-02300 (2A09 1-240)	Vitaly Vodyanoy	Prov. Patent Appl. No.: 60/250,800 Filed: 12/1/00 Entitled: <b>OPTICAL MICROSCOPE OF HIGH RESOLUTION</b>
AUB-02301 (2A09 1-241)	Vitaly Vodyanoy William Neely	U.S. Patent No.: 6,690,509 B2 (application no. 10/008,588 filed 12/3/01) Issued: 2/10/04 Entitled: <b>HIGH-RESOLUTION OPTICAL MICROSCOPE</b>
AUB-02301WO (2A09 2-241)		PCT Appl. No.: PCT/US01/46397 Int'l Filing Date: 12/3/01 Entitled: <b>HIGH-RESOLUTION OPTICAL MICROSCOPE</b>
AUB-02302 (2A09 1-242)	Vitaly Vodyanoy	U.S. Patent No.: 6,992,819 B2 (application no. 10/462,068 filed 6/13/03) Issued: 1/31/06 Entitled: <b>HIGH-RESOLUTION OPTICAL MICROSCOPE FOR QUICK DETECTION OF PATHOGENS</b>
AUB-02302WO (2A09 2-242)		PCT Appl. No.: PCT/US2004/017948 Int'l Filing Date: 6/7/04 Entitled: <b>HIGH-RESOLUTION OPTICAL MICROSCOPE</b>

<b>Attorney Docket No.:</b>	<b>Inventor(s)</b>	<b>Description</b>
AUB-02303 (2A09 1-243)	Vitaly Vodyanoy William Neely	U.S. Patent No.: 6,865,013 B2 (application no. 10/674,783 filed 9/30/03) Issued: 3/8/05 Entitled: <b>HIGH-RESOLUTION OPTICAL MICROSCOPE</b>
AUB-02304 (2A09 1-244)	Vitaly Vodyanoy William Neely	U.S. Patent Appl. No.: 11/068,223 Filed: 2/28/05 Entitled: <b>HIGH-RESOLUTION OPTICAL MICROSCOPE</b>
AUB-02400	Howard Thomas	Prov. Patent Appl. No.: 60/263,644 Filed: 1/24/01 Entitled: <b>NONWOVEN FOR THE REDUCTION OF BODY TRAUMA CAUSED BY IMPACT</b>
AUB-02401 (2P07 1-021)	Howard Thomas	U.S. Patent No.: 6,846,545 B2 (application no. 10/055,468 filed 1/23/02) Issued: 1/25/05 Entitled: <b>IMPACT ABSORBING MATERIAL</b>
AUB-02401WO (2P07 2-021)		PCT Appl. No.: PCT/US02/01803 Int'l Filing Date: 1/23/02 Entitled: <b>IMPACT ABSORBING MATERIAL</b>
AUB-02500	Kenny Brock	Prov. Patent Appl. No.: 60/270,098 Filed: 2/20/01 Entitled: <b>MOUSE MODEL FOR SCREENING ANTIVIRAL COMPOUNDS AGAINST HEPATITIS C VIRUS</b>

<b>Attorney Docket No.:</b>	<b>Inventor(s)</b>	<b>Description</b>
AUB-02600 (2A09 1-010)	Jeremy Corpening Chris Reasonover Ronald Barrett	Prov. Patent Appl. No.: 60/278,790 Filed: 3/26/01 Entitled: <b>AN EXPERIMENTAL AND ANALYTICAL INVESTIGATION OF BOUNDARY LAYER REATTACHMENT USING PIEZOELECTRIC SYNTHETIC JET ACTUATORS</b>
AUB-02601 (2A09 1-011)	Ronald Barrett Chris Reasonover Jeremy Corpening	U.S. Patent No.: 6,796,533 B2 (application No. 10/104,914 filed 3/22/02) Issued: 9/28/04 Entitled: <b>METHOD AND APPARATUS FOR BOUNDARY LAYER REATTACHMENT USING PIEZOELECTRIC SYNTHETIC JET ACTUATORS</b>
AUB-02700 (2A09 1-041)	Vitaly Vodyanoy Edward Morrison	U.S. Patent No.: 6,979,298 B2 (application no. 10/159,800 filed 5/31/02) Issued: 12/27/05 Entitled: <b>APPARATUS AND METHOD FOR THE MEASUREMENT OF THE AERODYNAMICS OF OLFACTION IN ANIMALS AND MAN</b>
AUB-02800 (2A09 1-051)	Vitaly Vodyanoy Solomon Yilma Ting To Lo Alexander Samoylov	U.S. Patent No.: 6,788,071 B2 (application no. 10/201,746 filed 7/23/02) Issued: 9/7/04 Entitled: <b>METHOD AND APPARATUS FOR GENERATING A VOLTAGE ACROSS A MEMBRANE</b>

<b>Attorney Docket No.:</b>	<b>Inventor(s)</b>	<b>Description</b>
AUB-02900 (2A09 1-210)	Shelby Worley Yongjun Chen	U.S. Patent No.: 6,548,054 B2 (application no. 09/948,945 filed 9/6/01) Issued: 4/15/03 Entitled: <b>BIOCIDAL POLYSTYRENE HYDANTOIN PARTICLES</b>
AUB-02901 (2A09 1-211)	Shelby Worley Yongjun Chen	U.S. Patent No.: 6,852,312 B2 (application no. 10/272,264 filed 10/15/02) Issued: 2/8/05 Entitled: <b>BIOCIDAL POLYSTYRENE HYDANTOIN PARTICLES</b>
AUB-03000 (2A09 1-061)	William Confer Richard Chapman	U.S. Patent No.: 6,721,452 B2 (application no. 10/242,104 filed 9/12/02) Issued: 4/13/04 Entitled: <b>SYSTEM AND METHOD OF HANDWRITTEN CHARACTER RECOGNITION</b>
AUB-03000WO (2A09 2-061)		PCT Appl. No.: PCT/US02/29125 Int'l Filing Date: 9/12/02 Entitled: <b>SYSTEM AND METHOD OF HANDWRITTEN CHARACTER RECOGNITION</b>
AUB-03100 (2A09 1-070)	Adit Singh Thomas Barnett	Prov. Patent Appl. No.: 60/347,974 Filed: 10/19/01 Entitled: <b>PROCESS TO ESTIMATE THE RELIABILITY OF INTEGRATED CIRCUITS WITH RESPECT TO EARLY-LIFE FAILURES AND OPTIMIZE STRESS TESTING</b>

<b>Attorney Docket No.:</b>	<b>Inventor(s)</b>	<b>Description</b>
AUB-03101 (2A09 1-073)	Adit Singh Thomas Barnett	U.S. Patent Appl. No.: 10/274,439 Filed: 10/18/02 Entitled: <b>SYSTEM AND METHOD FOR ESTIMATING RELIABILITY OF COMPONENTS FOR TESTING AND QUALITY OPTIMIZATION</b>
AUB-03101WO (2A09 2-073)		PCT Appl. No.: PCT/US02/33451 Int'l Filing Date: 10/18/02 Entitled: <b>SYSTEM AND METHOD FOR ESTIMATING RELIABILITY OF COMPONENTS FOR TESTING AND QUALITY OPTIMIZATION</b>
AUB-03200 (2A09 1-071)	Adit Singh Thomas Barnett	Prov. Patent Appl. No.: 60/335,108 Filed: 10/23/01 Entitled: <b>PROCESS TO ESTIMATE THE RELIABILITY OF REDUNDANT CIRCUITS WITH RESPECT TO EARLY-LIFE FAILURES AND OPTIMIZE STRESS TESTING</b>
AUB-03300 (2A09 1-072)	Adit Singh Thomas Barnett	Prov. Patent Application No.: 60/366,109 Filed: 3/20/02 Entitled: <b>PROCESS TO ESTIMATE THE RELIABILITY OF INTEGRATED CIRCUITS WITH RESPECT TO EARLY-LIFE FAILURES AND OPTIMIZE STRESS TESTING</b>
AUB-03400	Ming-Kuo Lee James Saunders Samuel Nichols	CIP Patent Appl. No.: 10/865,572 Filed: 6/10/04 Entitled: <b>METHOD AND SYSTEM FOR FORMING AN IN SITU GROUNDWATER FILTER</b>



<b>Attorney Docket No.:</b>	<b>Inventor(s)</b>	<b>Description</b>
AUB-03400WO		PCT Patent Appl. No.: PCT/US02/39541 Int'l Filing Date: 12/10/02 Entitled: <b>METHOD AND SYSTEM FOR FORMING AN IN SITU GROUNDWATER FILTER</b>
AUB-03500 (2A09 1-092)	Bor Jan Jun Liu Shizu Chen Zhimin Li Hassan Mahfuz Ashfaq Adnan	U.S. Patent No.: 6,934,600 B2 (application no. 10/389,261 filed 3/14/03) Issued: 8/23/05 Entitled: <b>NANOTUBE FIBER REINFORCED COMPOSITE MATERIALS AND METHOD OF PRODUCING FIBER REINFORCED COMPOSITES</b>
AUB-03600 (2A09 1-200)	Shelby Worley Yanjun Li	Prov. Patent Appl. No.: 60/379,969 Filed: 5/10/02 Entitled: <b>HETEROCYCLIC AMINE DIOL COMPOUNDS AND THEIR BIOCIDAL DERIVATIVES</b>
AUB-03601 (2A09 1-201)	Shelby Worley Yanjun Li	U.S. Patent Appl. No.: 10/190,897 Filed: 7/5/02 Entitled: <b>HETEROCYCLIC AMINE DIOL COMPOUNDS AND THEIR BIOCIDAL DERIVATIVES</b>
AUB-03601WO (2A09 2-201)		PCT Appl. No.: PCT/US03/314033 Int'l Filing Date: 5/2/03 Entitled: <b>HETEROCYCLIC AMINE DIOL COMPOUNDS AND THEIR BIOCIDAL DERIVATIVES</b>

<b>Attorney Docket No.:</b>	<b>Inventor(s)</b>	<b>Description</b>
AUB-03700 (2A09 1-101)		U.S. Patent Appl. No.: 10/444,802 Filed: 5/23/03 Entitled: <b>HANDHELD DEVICE FOR INTRUSIVE AND NON-INTRUSIVE FIELD MEASUREMENTS OF AIR PERMEABILITY OF SOIL</b>
AUB-03800 (2A09-110)		Prov. Patent Appl. No.: 60/412,738 Filed: 9/23/02 Entitled: <b>MAGNETICALLY ELEVATED RING SPINNING SYSTEM</b>
AUB-03800WO (2A09 2-110)		PCT Appl. No.: PCT/US03/30317 Int'l Filing Date: 9/23/03 Entitled: <b>MAGNETICALLY ELEVATED RING SPINNING SYSTEM</b>
AUB-03801 (2A09 1-111)	Faissal Abdel-Hady Yehia Elmoghazy	U.S. Patent Appl. No.: 10/528,483 Filed: 3/22/05 Entitled: <b>RING-SPINNING SYSTEM FOR MAKING YARN HAVING A MAGNETICALLY- ELEVATED RING</b>
AUB-03900 (2A09 1-120)	Thomas Baginski	Prov. Patent Appl. No.: 60/444,433 Filed: 2/3/03 Entitled: <b>TRIGGERED HIGH VOLTAGE SWITCH</b>
AUB-03901 (2A09 1-121)	Thomas Baginski	U.S. Patent No.: 6,977,468 B1 (application no 10/770,134 filed 2/2/04) Issued: 12/20/05 Entitled: <b>INTEGRATED SPARK GAP DEVICE</b>

<b>Attorney Docket No.:</b>	<b>Inventor(s)</b>	<b>Description</b>
AUB-04000 (2P7 1-040)	Howard Thomas	Prov. Patent Appl. No.: 60/482,962 Filed: 6/27/03 Entitled: <b>LAYERED BALLISTIC-RESISTANT MATERIAL</b>
AUB-04001 (2P7 1-042)	Howard Thomas	U.S. Patent Appl. No.: 10/876,804 Filed: 6/25/04 Entitled: <b>LAYERED BALLISTIC-RESISTANT MATERIAL</b>
AUB-04001WO (2P07-1-042)		PCT Patent Appl. No.: PCT/US04/020466 Int'l Filing Date: 6/25/04 Entitled: <b>LAYERED BALLISTIC-RESISTANT MATERIAL</b>
AUB-04100 (2P07 1-041)	Howard Thomas	Prov. Patent Appl. No.: 60/499,603 Filed: 9/2/03 Entitled: <b>LAYERED BALLISTIC R-RESISTANT MATERIAL</b>
AUB-04200 (2A09 3-010)		Trademark Registration No.: 2,974,015 (application no 78/317,418 filed 10/23/03) Registered: 7/19/05 Mark: <b>'MATERDIRT</b>
AUB-04201 (2A09 3-020)		Trademark Registration No.: 2,974,016 (application no. 78/317,419 filed 10/23/03) Registered: 7/19/05 Mark: <b>'MATERDIRT and design</b>

<b>Attorney Docket No.:</b>	<b>Inventor(s)</b>	<b>Description</b>
AUB-04300 (2A09 1-150)	Curtis Shannon Annette Howlls	Prov. Patent Appl. No.: 60/511,519 Filed: 10/15/03 Entitled: <b>DI-RUTHENIUM-SUBSTITUTED POLYOXOMETALATE AS AN ELECTROCATALYST FOR WATER OXIDATION AND OXYGEN GENERATION</b>
AUB-04301 (2A09 1-151)	Curtis Shannon Annette Howlls	U.S. Patent Appl. No.: 10/967,029 Filed: 10/15/04 Entitled: <b>DI-RUTHENIUM-SUBSTITUTED POLYOXOMETALATE AS AN ELECTROCATALYST FOR WATER OXIDATION AND OXYGEN GENERATION</b>
AUB-04400 (2A09 1-160)	Said Elnashaie Parag Garhyan	Prov. Patent Appl. No.: 60/515,262 Filed: 10/29/03 Entitled: <b>NOVEL CHAOTIC FERMENTOR FOR THE EFFICIENT PRODUCTION OF FUEL ETHANOL</b>
AUB-04401 (2A09 1-161)	Said Elnashaie Parag Garhyan	U.S. Patent Appl. No.: 10/978,293 Filed: 10/29/04 Entitled: <b>CHAOTIC FERMENTATION OF ETHANOL</b>
AUB-04500 (2A09 1-180)	Shelby Worley Yongjun Chen	Prov. Patent Appl. No.: 60/520,608 Filed: 11/1703 Entitled: <b>A BIOCIDAL SILOXANE COATING MATERIAL CONTAINING N- HALOGENATED AMINE AND AMIDE FUNCTIONAL GROUPS</b>

<b>Attorney Docket No.:</b>	<b>Inventor(s)</b>	<b>Description</b>
AUB-04501	Shelby Worley Yongjun Chen Jie Liang Rong Wu Kevin Barnes Royall Broughton Unchin Cho Jaewoong Lee	U.S. Patent Appl. No.: 10/991,358 Filed: 11/17/04 Entitled: <b>BIOCIDAL SILOXANE COATING MATERIAL CONTAINING N-HALOGENATED AMINE AND AMIDE FUNCTIONAL GROUPS</b>
AUB-04501WO		PCT Patent Appl. No.: PCT/US2004/038558 Int'l Filing Date: 11/17/04 Entitled: <b>BIOCIDAL SILOXANE COATING MATERIAL CONTAINING N-HALOGENATED AMINE AND AMIDE FUNCTIONAL GROUPS</b>
AUB-04600 (2A09 1-250)	Vitaly Vodyanoy Oleg Pustovyy	Prov. Patent Appl. No.: 60/563,175 Filed: 4/16/04 Entitled: <b>ILLUMINATION SYSTEM FOR AN OPTICAL MICROSCOPE</b>
AUB-04601 (2A09 1-234)	Vitaly Vodyanoy Oleg Pustovyy	U.S. Patent Appl. No.: 11/106,819 Filed: 4/15/05 Entitled: <b>MICROSCOPE ILLUMINATION DEVICE AND ADAPTER THEREFOR</b>
AUB-04601WO (2A09 2-234)		PCT Patent Appl. No.: PCT/US2005/013054 Int'l Filing Date: 4/15/05 Entitled: <b>MICROSCOPE ILLUMINATION DEVICE AND ADAPTER THEREFOR</b>

<b>Attorney Docket No.:</b>	<b>Inventor(s)</b>	<b>Description</b>
AUB-04700 (2A09 1-230)	Vitaly Vodyanoy Thomas Hassling	Prov. Patent Appl. No.: 60/634,850 Filed: 12/10/04 Entitled: <b>ULTRA-RESOLUTION IMAGING USING OBLIQUE FLUORESCENCE EXCITATION</b>
AUB-04800 (2A09 1-231)	Vitaly Vodyanoy Oleg Pustovyy Thomas Hassling	Prov. Patent Appl. No.: 60/650,607 Filed: 2/7/05 Entitled: <b>SYSTEM AND METHOD FOR ULTRA- RESOLUTION IMAGING IN COMBINATION WITH FLUORESCENCE MICROSCOPY</b>
AUB-04900 (2A09 1-232)	Vitaly Vodyanoy	Prov. Patent Appl. No.: 60/655,805 Filed: 2/24/05 Entitled: <b>SYSTEM AND METHOD FOR HIGH RESOLUTION LIGHT MICROSCOPY OF LIVE CELLS</b>
AUB-05000 (2A09 1-233)	Vitaly Vodyanoy	Prov. Patent Appl. No.: 60/660,484 Filed: 3/10/05 Entitled: <b>SYSTEM AND METHOD FOR ULTRA- RESOLUTION IMAGING IN COMBINATION WITH FLUORESCENCE MICROSCOPY</b>
AUB-05100 (2A09 1-130)	Yoon Lee Htem Harraz	Prov. Patent Appl. No.: 60/576,103 Filed: 6/2/04 Entitled: <b>PRODUCTION OF NON-CRYSTALLINE CELLULOSE FROM REFINED AND UNREFINED CELLULOSE MATERIALS</b>

<b>Attorney Docket No.:</b>	<b>Inventor(s)</b>	<b>Description</b>
AUB-05101 (2A09 1-131)	Yoon Lee Hatem Harraz	U.S. Patent Appl. No.: 11/142,936 Filed: 6/2/05 Entitled: <b>NON-CRYSTALLINE CELLULOSE AND PRODUCTION THEREOF</b>
AUB-05101WO (2A09 2-131)		PCT Patent Appl. No.: PCT/US2005/019548 Int'l Filing Date: 6/2/05 Entitled: <b>NON-CRYSTALLINE CELLULOSE AND PRODUCTION THEREOF</b>
AUB-05200 (2A09 1-220)	Vitaly Vodyanoy Charles Ellis Solomon Yilma Eleanor Josephson Bogdan Wilamowski Thomas Hasling	Prov. Patent Appl. No.: 60/647,649 Filed: 1/27/05 Entitled: <b>SYSTEM AND METHOD FOR PATCH CLAMP ANALYSIS</b>
AUB-05300 (2A09 1-140)	Christopher Roberts Marshall McLeod	Prov. Patent Appl. No.: 60/613,249 Filed: 9/27/04 Entitled: <b>CO2-EXPANDED LIQUID DEPOSITION OF LIGAND STABILIZED NANOPARTICLES AS UNIFORM, WIDE AREA NANOPARTICLE FILMS</b>
AUB-05301 (2A09 1-143)	Christopher Roberts Marshall McLeod Madhu Anand	U.S. Patent Appl. No.: 11/237,601 Filed: 9/27/05 Entitled: <b>SELECTION AND DEPOSITION OF NANOPARTICLES USING CO2-EXPANDED LIQUIDS</b>

<b>Attorney Docket No.:</b>	<b>Inventor(s)</b>	<b>Description</b>
AUB-05301WO  (2A09 2-143)		PCT Patent Appl. No.: PCT/US2005/034970 Int'l Filing Date: not yet given Entitled: <b>SELECTION AND DEPOSITION OF NANOPARTICLES USING CO2-EXPANDED LIQUIDS</b>
AUB-05400  (2A09 1-141)	Christopher Roberts Marshall McLeod Madhu Anand	Prov. Patent Appl. No.: 60/613,562 Filed: 9/27/04 Entitled: <b>PRECISE AND RAPID SIZE SELECTION OF NANOPARTICLE POPULATIONS USING CO2 GAS EXPANDED LIQUIDS</b>
AUB-05500  (2A09 1-142)	Christopher Roberts Madhu Anand Marshall McLeod	Prov. Patent Appl. No.: 60/708,685 Filed: 8/15/05 Entitled: <b>TUNABLE SOLVATION EFFECTS ON THE SIZE SELECTIVE FRACTIONATION OF METAL NANOPARTICLES IN CO2 GAS EXPANDED SOLVANTS</b>